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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/581,445	06/02/2006	Masao Nonaka	2006_0778A	6614	
	7590 11/16/201 I, LIND & PONACK I	EXAMINER			
1030 15th Stree	et, N.W.	YANG, JAMES J			
Suite 400 East Washington, DC 20005-1503			ART UNIT	PAPER NUMBER	
			2612		
			NOTIFICATION DATE	DELIVERY MODE	
			11/16/2010	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ddalecki@wenderoth.com eoa@wenderoth.com

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	
10/581,445	NONAKA ET AL.	
Examiner	Art Unit	

	JAMES YANG	2612						
The MAILING DATE of this communication appe	ars on the cover sheet with the c	correspondence add	ress					
THE REPLY FILED <u>07 October 2010</u> FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.								
1. The reply was filed after a final rejection, but prior to or on application, applicant must timely file one of the following rapplication in condition for allowance; (2) a Notice of Appe for Continued Examination (RCE) in compliance with 37 C periods:	replies: (1) an amendment, affidavit al (with appeal fee) in compliance	t, or other evidence, w with 37 CFR 41.31; or	hich places the (3) a Request					
a) The period for reply expires 3 months from the mailing date b) The period for reply expires on: (1) the mailing date of this Adno event, however, will the statutory period for reply expire la Examiner Note: If box 1 is checked, check either box (a) or (I MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f Extensions of time may be obtained under 37 CFR 1.136(a). The date of have been filed is the date for purposes of determining the period of extunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later	dvisory Action, or (2) the date set forth in the than SIX MONTHS from the mailing to). ONLY CHECK BOX (b) WHEN THE). On which the petition under 37 CFR 1.13 ension and the corresponding amount of the chortened statutory period for reply original to the corresponding amount of the	g date of the final rejection FIRST REPLY WAS FII 36(a) and the appropriate of the fee. The appropriate analy set in the final Office	e extension fee ate extension; or (2) as					
may reduce any earned patent term adjustment. See 37 CFR 1.704(b).	and the months and the maining date	o or the initial rejection, o	ver ir airriety med,					
NOTICE OF APPEAL 2. ☐ The Notice of Appeal was filed on A brief in compl filing the Notice of Appeal (37 CFR 41.37(a)), or any exter Notice of Appeal has been filed, any reply must be filed wi AMENDMENTS	sion thereof (37 CFR 41.37(e)), to	avoid dismissal of the						
3. The proposed amendment(s) filed after a final rejection, b	out prior to the date of filing a brief,	will <u>not</u> be entered be	cause					
(a) They raise new issues that would require further cor	•	E below);						
 (b) ☐ They raise the issue of new matter (see NOTE belown) (c) ☐ They are not deemed to place the application in better appeal; and/or 	•	ducing or simplifying tl	ne issues for					
(d) They present additional claims without canceling a converse NOTE: (See 37 CFR 1.116 and 41.33(a)).	orresponding number of finally reje	ected claims.						
4. The amendments are not in compliance with 37 CFR 1.12	1. See attached Notice of Non-Cor	mpliant Amendment (PTOL-324).					
5. Applicant's reply has overcome the following rejection(s):								
 Newly proposed or amended claim(s) would be all non-allowable claim(s). 	·	•	_					
7. For purposes of appeal, the proposed amendment(s): a) [how the new or amended claims would be rejected is prov The status of the claim(s) is (or will be) as follows:		l be entered and an e	xplanation of					
Claim(s) allowed:								
Claim(s) objected to: Claim(s) rejected: <u>1, 5-15, 30-31, 35-36, 38-39, 42-43, 45-</u> Claim(s) withdrawn from consideration:	<u>47</u> .							
AFFIDAVIT OR OTHER EVIDENCE								
 The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e). 								
9. The affidavit or other evidence filed after the date of filing a entered because the affidavit or other evidence failed to or showing a good and sufficient reasons why it is necessary	vercome <u>all</u> rejections under appea	ıl and/or appellant fail:	s to provide a					
10. ☐ The affidavit or other evidence is entered. An explanatior REQUEST FOR RECONSIDERATION/OTHER	n of the status of the claims after er	ntry is below or attach	ed.					
11. The request for reconsideration has been considered but See Continuation Sheet.	does NOT place the application in	condition for allowan	ce because:					
12. ☐ Note the attached Information <i>Disclosure Statement</i>(s). (13. ☐ Other:	PTO/SB/08) Paper No(s)							
/Brian A Zimmerman/ Supervisory Patent Examiner, Art Unit 2612								
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Continuation of 11. does NOT place the application in condition for allowance because: The applicant's arguments filed 10/07/2010 have been fully considered but are not persuasive.

In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See In re Keller, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); In re Merck & Co., 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

In response to the applicant's arguments on pages 20-24 that the Abraham reference does not teach a one-way function, the examiner respectfully disagrees for the reasons set forth below. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., the details regarding a "one-way function") are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See In re Van Geuns, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). Thus, the term one-way function, although taken in light of the specification, is interpreted as it is written in the claims, for example claim 1, and explained below. The Abraham reference teaches the use of secret keys (see Abraham, Col. 3, Lines 5-8). The Abraham reference further teaches a first key obtained by executing a one-way function on a key identical with the secret key (see Abraham Col. 3, Lines 21-23). The value Y is a first key, and it is obtained by decrypting, i.e. a one-way function, a value X and using a key that is identical with the secret key, K2. Thus, the term one-way function is generally interpreted as inputting two values on one end, and decrypting the two values to output a single value on another, thus the process of data in on one side, and data out on the other side defines the term one-way. Next, the Abraham reference teaches an authentication apparatus generating challenge data, and outputs the challenge data to the IC card via the card reader (see Abraham, Col. 3, Lines 13-21). The value X is transmitted to the card to determine whether or not the secret keys are a match. X can be interpreted as challenge data because X is a value derived by encrypting the secret key K1 to be compared to the secret key K2, hence challenge data. Thus the challenge data is the secret key K1 and a random number encrypted together. The Abraham reference further teaches the IC card receiving the challenge data, then generates encrypted response data using the first key, and outputting the response data to the authentication apparatus (see Abraham, Col. 3, Lines 25-28). The value Z is encrypted by using the secret key, K2, and the first key Y, and encrypting the two values to form value Z. It is noted also that the first key Y is interpreted as being derived by the challenge data X. The Abraham reference then teaches the authentication apparatus receiving the encrypted response data from the card, and then generating a second key by executing a funcion identical to the one-way function (see Abraham, Col. 3, Lines 28-30). Since the process to produce a second key, A, is performed by decrypting value Z and a random number, i.e. two input values to derive a single value A, the decryption process from value Z to A is identical to the one-way function used for value X to Y. Lastly, the Abraham reference teaches generating decrypted data using the second key (see Abraham, Col. 3, Lines 28-30) and performing authentication by judging whether or not the generated decrypted data matches the challenge data (see Abraham, Col. 3, Lines 30-32). It is also noted since the term "one-way function" is defined in the claims as a function executed "on a key that is identical with the secret key", as claimed in claim 1, the one-way function is separate from the secret key and thus may be generally interpreted as inputting two values, decrypting, and outputting a single value.

In response to applicant's argument that there is no teaching, suggestion, or motivation to combine the references, the examiner recognizes that obviousness may be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See In re Fine, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988), In re Jones, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992), and KSR International Co. v. Teleflex, Inc., 550 U.S. 398, 82 USPQ2d 1385 (2007). In this case, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the access control system in Ahlstrom by incorporating the teaching of a challenge response authentication system as taught by Abraham. The motivation would be to protect useful information by first authenticating all components in an authentication system (see Abraham, Col. 1, Lines 63-66).